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Title: SYSTEM AND METHOD FOR CHANNELIZATION RECOGNITION IN A WIDEBAND COMMUNICATION SYSTEM

Assignee: Intel Corporation

IN THE ABSTRACT OF THE DISCLOSURE

Please amend the Abstract page as follows:

SYSTEM AND METHOD FOR CHANNELIZATION RECOGNITION IN A WIDEBAND COMMUNICATION SYSTEM

Abstract of the Disclosure

The channelization of a WB OFDM channel may be determined by detecting a plurality of subchannels and generate a channelization vector indicating which of the subchannels are active and which of the subchannels are inactive. In response to the channelization vector, data-symbol processing may be performed on the active subchannels and may be refrained from being performed on the inactive subchannels. In some embodiments, a decoded bit stream may be generated from the combined contributions of the active channels. In some embodiments, the subchannels may be detected with a parallel set of matched filters. The matched filters may have a coefficient spectrum matched to a corresponding one of the subchannels.